AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of the claims in the present application.

1 (Original). A method for screening to identify a selective anxiolytic agent comprising contacting a candidate molecule with the $\alpha2$-GABA$_A$ receptor and the $\alpha1$-GABA$_A$ receptor and determining whether the candidate molecule selectively or preferentially binds to or activates the $\alpha2$-GABA$_A$ receptor as compared to the $\alpha1$-GABA$_A$ receptor, wherein a molecule that selectively or preferentially binds to or activates the $\alpha2$-GABA$_A$ receptor as compared to the $\alpha1$-GABA$_A$ receptor is a selective anxiolytic agent.

2 (Original). A method for screening to identify a selective anxiolytic agent comprising contacting a candidate molecule with the $\alpha2$-GABA$_A$ receptor and the $\alpha3$-GABA$_A$ receptor and determining whether the candidate molecule selectively or preferentially binds to or activates the $\alpha2$-GABA$_A$ receptor as compared to the $\alpha3$-GABA$_A$ receptor, wherein a molecule that selectively or preferentially binds to or activates the $\alpha2$-GABA$_A$ receptor as compared to the $\alpha3$-GABA$_A$ receptor is a selective anxiolytic agent.

3 (Original). A method for screening to identify a selective anxiolytic agent comprising contacting a candidate molecule with the $\alpha2$-GABA$_A$ receptor and the $\alpha5$-GABA$_A$ receptor and determining whether the candidate molecule selectively or preferentially binds to or activates the $\alpha2$-GABA$_A$ receptor as compared to the $\alpha5$-GABA$_A$ receptor, wherein a molecule that selectively or preferentially binds to or activates the $\alpha2$-GABA$_A$ receptor as compared to the $\alpha5$-GABA$_A$ receptor is a selective anxiolytic agent.

4 (Original). A selective anxiolytic agent which selectively or preferentially binds to or activates the $\alpha2$-GABA$_A$ receptor as compared to the $\alpha1$-GABA$_A$ receptor.

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5 (Original). A selective anxiolytic agent which selectively or preferentially binds to or activates the $\alpha 2$-GABA$_A$ receptor as compared to the $\alpha 3$-GABA$_A$ receptor.

6 (Original). A selective anxiolytic agent which selectively or preferentially binds to or activates the $\alpha 2$-GABA$_A$ receptor as compared to the $\alpha 5$-GABA$_A$ receptor.

7 (Original). The selective anxiolytic agent according to claim 4, 5 or 6, wherein the agent binds to the benzodiazepine binding site of the receptor.

8 (Original). The selective anxiolytic agent according to claim 4, 5 or 6, wherein the agent binds to the neurosteroid binding site of the receptor.

9 (Original). The selective anxiolytic agent according to claim 4, 5 or 6, wherein the agent binds to the barbiturate binding site of the receptor.

10 (Original). A method of treating an anxiety-related disorder comprising administering a therapeutically effective amount of a selective anxiolytic agent and a pharmaceutically acceptable carrier to a patient in need thereof.

11 (Original). The method according to claim 10 in which the selective anxiolytic agent is identified by the method of claim 1, 2 or 3.

12 (Original). The method according to claim 10 in which the selective anxiolytic agent binds to the benzodiazepine binding site of the receptor.

13 (Original). The method according to claim 10 in which the selective anxiolytic agent binds to the neurosteroid binding site of the receptor.

14 (Original). The method according to claim 10 in which the selective anxiolytic agent binds to the barbiturate binding site of the receptor.

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15 (Original). The method according to claim 10 in which the selective anxiolytic agent is a pro-drug.

16 (Original). A method of identifying a molecule that decreases the ability of a non-selective benzodiazepine to bind to the $\alpha 1$-GABA$_A$ receptor but does not substantially decrease the ability of the non-selective benzodiazepine to bind to the $\alpha 2$-GABA$_A$ receptor comprising contacting the $\alpha 1$-GABA$_A$ receptor and the $\alpha 2$-GABA$_A$ receptor with a non-selective benzodiazepine and a candidate molecule and detecting the ability of the candidate molecule to decrease the ability of the benzodiazepine to bind to the $\alpha 1$-GABA$_A$ receptor but not substantially decrease the ability of the benzodiazepine to bind to the $\alpha 2$-GABA$_A$ receptor.

17 (Original). A method of identifying a molecule that decreases the ability of a non-selective benzodiazepine to bind to the $\alpha 3$-GABA$_A$ receptor but does not substantially decrease the ability of the non-selective benzodiazepine to bind to the $\alpha 2$-GABA$_A$ receptor comprising contacting the $\alpha 3$-GABA$_A$ receptor and the $\alpha 2$-GABA$_A$ receptor with a non-selective benzodiazepine and a candidate molecule and detecting the ability of the candidate molecule to decrease the ability of the benzodiazepine to bind to the $\alpha 3$-GABA$_A$ receptor but not substantially decrease the ability of the benzodiazepine to bind to the $\alpha 2$-GABA$_A$ receptor.

18 (Original). A method of identifying a molecule that decreases the ability of a non-selective benzodiazepine to bind to the $\alpha 5$-GABA$_A$ receptor but does not substantially decrease the ability of the non-selective benzodiazepine to bind to the $\alpha 2$-GABA$_A$ receptor comprising contacting the $\alpha 5$-GABA$_A$ receptor and the $\alpha 2$-GABA$_A$ receptor with a non-selective benzodiazepine and a candidate molecule and detecting the ability of the candidate molecule to decrease the ability of the benzodiazepine to bind to the $\alpha 5$-GABA$_A$ receptor but

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not substantially decrease the ability of the benzodiazepine to bind to the $\alpha2$-GABA$_A$ receptor.

19 (New). The method according to claim 1, wherein the candidate molecule selectively or preferentially binds to or activates the $\alpha3$-GABA$_A$ or $\alpha5$-GABA$_A$ receptor to a lesser degree as compared to the $\alpha2$-GABA$_A$ receptor.

20 (New). The method according to claim 1, wherein the candidate molecule selectively or preferentially binds to or activates the $\alpha3$-GABA$_A$ or $\alpha5$-GABA$_A$ receptor to a greater degree as compared to the $\alpha2$-GABA$_A$ receptor.

21 (New). The method according to claim 1, wherein the candidate molecule selectively or preferentially binds to or activates the $\alpha3$-GABA$_A$ or $\alpha5$-GABA$_A$ receptor to the same degree as compared to the $\alpha2$-GABA$_A$ receptor.